

Figure 1A

											M	Q	R	L	G	A	T	L	L	C	10
											ATG	CAG	CGG	CTT	GGG	GCC	ACC	CTG	CTG	TGC	67
L	L	L	A	A	A	V	P	T	A	P	A	P	A	P	T	A	T	S	A		30
CTG	CTG	CTG	GCG	GCG	GCG	GTC	CCC	ACG	GCC	CCC	GCG	CCC	GCT	CCG	ACG	GCG	ACC	TCG	GCT		127
P	V	K	P	G	P	A	L	S	Y	P	Q	E	E	A	T	L	N	E	M		50
CCA	GTC	AAG	CCC	GGC	CCG	GCT	CTC	AGC	TAC	CCG	CAG	GAG	GAG	GCC	ACC	CTC	AAT	GAG	ATG		187
F	R	E	V	E	E	L	M	E	D	T	Q	H	K	L	R	S	A	V	E		70
TTC	CGC	GAG	GTT	GAG	GAA	CTG	ATG	GAG	GAC	ACG	CAG	CAC	AAA	TTG	CGC	AGC	GCG	GTG	GAA		247
E	M	E	A	E	E	A	A	A	K	A	S	S	E	V	N	L	A	N	L		90
GAG	ATG	GAG	GCA	GAA	GAA	GCT	GCT	GCT	AAA	GCA	TCA	TCA	GAA	GTG	AAC	CTG	GCA	AAC	TTA		307
P	P	S	Y	H	N	E	T	N	T	D	T	K	V	G	N	N	T	I	H		110
CCT	CCC	AGC	TAT	CAC	AAT	GAG	ACC	AAC	ACA	GAC	ACG	AAG	GTT	GGA	AAT	AAT	ACC	ATC	CAT		367
V	H	R	E	I	H	K	I	T	N	N	Q	T	G	Q	M	V	F	S	E		130
GTG	CAC	CGA	GAA	ATT	CAC	AAG	ATA	ACC	AAC	AAC	CAG	ACT	GGA	CAA	ATG	GTC	TTT	TCA	GAG		427
T	V	I	T	S	V	G	D	E	E	G	R	R	S	H	E	C	I	I	D		150
ACA	GTT	ATC	ACA	TCT	GTG	GGA	GAC	GAA	GAA	GGC	AGA	AGG	AGC	CAC	GAG	TGC	ATC	ATC	GAC		487
E	D	C	G	P	S	M	Y	C	Q	F	A	S	F	Q	Y	T	C	Q	P		170
GAG	GAC	TGT	GGG	CCC	AGC	ATG	TAC	TGC	CAG	TTT	GCC	AGC	TTC	CAG	TAC	ACC	TGC	CAG	CCA		547
C	R	G	Q	R	M	L	C	T	R	D	S	E	C	C	G	D	Q	L	C		190
TGC	CGG	GGC	CAG	AGG	ATG	CTC	TGC	ACC	CGG	GAC	AGT	GAG	TGC	TGT	GGA	GAC	CAG	CTG	TGT		607
V	W	G	H	C	T	K	M	A	T	R	G	S	N	G	T	I	C	D	N		210
GTC	TGG	GGT	CAC	TGC	ACC	AAA	ATG	GCC	ACC	AGG	GGC	AGC	AAT	GGG	ACC	ATC	TGT	GAC	AAC		667
Q	R	D	C	Q	P	G	L	C	C	A	F	Q	R	G	L	L	F	P	V		230
CAG	AGG	GAC	TGC	CAG	CCG	GGG	CTG	TGC	TGT	GCC	TTC	CAG	AGA	GGC	CTG	CTG	TTC	CCT	GTG		727
C	T	P	L	P	V	E	G	E	L	C	H	D	P	A	S	R	L	L	D		250
TGC	ACA	CCC	CTG	CCC	GTG	GAG	GGC	GAG	CTT	TGC	CAT	GAC	CCC	GCC	AGC	CGG	CTT	CTG	GAC		787
L	I	T	W	E	L	E	P	D	G	A	L	D	R	C	P	C	A	S	G		270
CTC	ATC	ACC	TGG	GAG	CTA	GAG	CCT	GAT	GGA	GCC	TTG	GAC	CGA	TGC	CCT	TGT	GCC	AGT	GGC		847
L	L	C	Q	P	H	S	H	S	L	V	Y	V	C	K	P	T	F	V	G		290
CTC	CTC	TGC	CAG	CCC	CAC	AGC	CAC	AGC	CTG	GTG	TAT	GTG	TGC	AAG	CCG	ACC	TTC	GTG	GGG		907
S	R	D	Q	D	G	E	I	L	L	P	R	E	V	P	D	E	Y	E	V		310
AGC	CGT	GAC	CAA	GAT	GGG	GAG	ATC	CTG	CTG	CCC	AGA	GAG	GTC	CCC	GAT	GAG	TAT	GAA	GTT		967
G	S	F	M	E	E	V	R	Q	E	L	E	D	L	E	R	S	L	T	E		330
GGC	AGC	TTC	ATG	GAG	GAG	GTG	CGC	CAG	GAG	CTG	GAG	GAC	CTG	GAG	AGG	AGC	CTG	ACT	GAA		1027
E	M	A	L	G	E	P	A	A	A	A	A	A	L	L	G	G	E	E	I		350
GAG	ATG	GCG	CTG	GGG	GAG	CCT	GCG	GCT	GCC	GCC	GCT	GCA	CTG	CTG	GGA	GGG	GAA	GAG	ATT		1087
*																					351
TAG																					1090

"GGGG" 2209260

Figure 1B

ATCTGGACCAGGCTGTGGGTAGATGTGCAATAGAAATAGCTAATTTATTTCCCCANGTGTGTGCTTTAAGCGTGGGCTG 1169
ACCAGGCTTCTTCCTACATCTTCTTCCCAGTAAGTTTCCCCTCTGGCTTGACAGCATGAGGTGTTGTGCATTTGTTTCAG 1248
CTCCCCCAGGCTGTTCTCCAGGCTTACAGTCTGGTGCTGGGAGAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTTGC 1327
CACCCCTGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTCTACATGGCTTTGATAATTG 1406
TTTGAGGGGAGGAGATGGAAACAATGTGGAGTCTCCCTCTGATTGGTTTTGGGGAAATGTGGAGAAGAGTGCCTTGCTT 1485
TGCAAACATCAACCTGGCAAAAATGCAACAAATGAATTTTCCACGCAGTTCTTTCCATGGGCATAGGTAAGCTGTGCCT 1564
TCAGCTGTTGCAGATGAAATGTTCTGTTCACCCTGCATTACATGTGTTTATTTCATCCAGCAGTGTGCTCAGCTCCTAC 1643
CTCTGTGCCAGGGCAGCATTTTTCATATCCAAGATCAATTCCTCTCTCAGCACAGCCTGGGGAGGGGGTCAATTGTTCTC 1722
CTCGTCCATCAGGGATTTTCAGAGGCTCAGAGACTGCAAGCTGCTTGCCCAAGTCACACAGCTAGTGAAGACCAGAGCAG 1801
TTTCATCTGGTTGTGACTCTAAGCTCAGTGCTCTCTCCACTACCCACACCAGCCTTGGTGCCACCAAAGTGCTCCCC 1880
AAAAGGAAGGAGAATGGGATTTTTCTTTTGAGGCATGCACATCTGGAATTAAGGTCAAACCTAATTCTCACATCCCTCTA 1959
AAAGTAACTACTGTTAGGAACAGCAGTGTCTCACAGTGTGGGCAGCCGTCTTCTAATGAAGACAATGATATTGAC 2038
ACTGTCCCTCTTTGGCAGTTGCATTAGTAACTTTGAAAGGTATATGACTGAGCGTAGCATAACAGGTTAACCTGCAGAAA 2117
CAGTACTTAGGTAATTGTAGGGCAGGATTATAAATGAAATTTGCAAAATCACTTAGCAGCAACTGAAGACAATTATCA 2196
ACCACGTGGAGAAAATCAAACCGAGCAGGGCTGTGTGAAACATGGTTGTAATATGCGACTGCGAACACTGAACTCTACG 2275
CCACTCCACAAATGATGTTTTTCAGGTGTCATGGACTGTTGCCACCATGTATTTCATCCAGAGTTCTTAAAGTTTAAAGTT 2354
GCACATGATTGTATAAGCATGCTTTCTTTGAGTTTTAAATTATGTATAAACATAAGTTGCATTTAGAAATCAAGCATAA 2433
ATCACTTCAACTGCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2479

665050" 665050

Figure 2

GAATTCGGCACGAGAGACGACGTGCTGAGCTGCCAGCTTAGTGGAAGCTCTGCTCTGGGTGGAGAGCAGCCTCGCTTTG	79
	M V A A V L L G
GTGACGCACAGTGCTGGGACCCTCCAGGAGCCCCGGGATTGAAGG ATG GTG GCG GCC GTC CTG CTG GGG	8 148
L S W L C S P L G A L V L D F N N I R S	28
CTG AGC TGG CTC TGC TCT CCC CTG GGA GCT CTG GTC CTG GAC TTC AAC AAC ATC AGG AGC	208
S A D L H G A R K G S Q C L S D T D C N	48
TCT GCT GAC CTG CAT GGG GCC CGG AAG GGC TCA CAG TGC CTG TCT GAC ACG GAC TGC AAT	268
T R K F C L Q P R D E K P F C A T C R G	68
ACC AGA AAG TTC TGC CTC CAG CCC CGC GAT GAG AAG CCG TTC TGT GCT ACA TGT CGT GGG	328
L R R R C Q R D A M C C P G T L C V N D	88
TTG CGG AGG AGG TGC CAG CGA GAT GCC ATG TGC TGC CCT GGG ACA CTC TGT GTG AAC GAT	388
V C T T M E D A T P I L E R Q L D E Q D	108
GTT TGT ACT ACG ATG GAA GAT GCA ACC CCA ATA TTA GAA AGG CAG CTT GAT GAG CAA GAT	448
G T H A E G T T G H P V Q E N Q P K R K	128
GGC ACA CAT GCA GAA GGA ACA ACT GGG CAC CCA GTC CAG GAA AAC CAA CCC AAA AGG AAG	508
P S I K K S Q G R K G Q E G E S C L R T	148
CCA AGT ATT AAG AAA TCA CAA GGC AGG AAG GGA CAA GAG GGA GAA AGT TGT CTG AGA ACT	568
F D C G P G L C C A R H F W T K I C K P	168
TTT GAC TGT GGC CCT GGA CTT TGC TGT GCT CGT CAT TTT TGG ACG AAA ATT TGT AAG CCA	628
V L L E G Q V C S R R G H K D T A Q A P	188
GTC CTT TTG GAG GGA CAG GTC TGC TCC AGA AGA GGG CAT AAA GAC ACT GCT CAA GCT CCA	688
E I F Q R C D C G P G L L C R S Q L T S	208
GAA ATC TTC CAG CGT TGC GAC TGT GGC CCT GGA CTA CTG TGT CGA AGC CAA TTG ACC AGC	748
N R Q H A R L R V C Q K I E K L *	225
AAT CGG CAG CAT GCT CGA TTA AGA GTA TGC CAA AAA ATA GAA AAG CTA TAA	799
ATATTTCAAATAAAGAAGAATCCACATTGCAAAAAAAAAAAAAAAAAAAAA	848

66060120360

Figure 3

GTCGACCCACGCGTCCGCGGACGCGTGGGCGGCACGGTTTCGTGGGGACCCAGGCTTGCAAAGTGACGGTCATTTTCTC 79
M M A L G A A G A T R V 12
TTTCTTTCTCCCTCTTGAGTCCTTCTGAG ATG ATG GCT CTG GGC GCA GCG GGA GCT ACC CGG GTC 144
F V A M V A A A L G G H P L L G V S A T 32
TTT GTC GCG ATG GTA GCG GCG GCT CTC GGC GGC CAC CCT CTG CTG GGA GTG AGC GCC ACC 204
L N S V L N S N A I K N L P P P L G G A 52
TTG AAC TCG GTT CTC AAT TCC AAC GCT ATC AAG AAC CTG CCC CCA CCG CTG GGC GGC GCT 264
A G H P G S A V S A A P G I L Y P G G N 72
GCG GGG CAC CCA GGC TCT GCA GTC AGC GCC GCG CCG GGA ATC CTG TAC CCG GGC GGC AAT 324
K Y Q T I D N Y Q P Y P C A E D E E C G 92
AAG TAC CAG ACC ATT GAC AAC TAC CAG CCG TAC CCG TGC GCA GAG GAC GAG GAG TGC GGC 384
T D E Y C A S P T R G G D A G V Q I C L 112
ACT GAT GAG TAC TGC GCT AGT CCC ACC CGC GGA GGG GAC GCA GGC GTG CAA ATC TGT CTC 444
A C R K R R K R C M R H A M C C P G N Y 132
GCC TGC AGG AAG CGC CGA AAA CGC TGC ATG CGT CAC GCT ATG TGC TGC CCC GGG AAT TAC 504
C K N G I C V S S D Q N H F R G E I E E 152
TGC AAA AAT GGA ATA TGT GTG TCT TCT GAT CAA AAT CAT TTC CGA GGA GAA ATT GAG GAA 564
T I T E S F G N D H S T L D G Y S R R T 172
ACC ATC ACT GAA AGC TTT GGT AAT GAT CAT AGC ACC TTG GAT GGG TAT TCC AGA AGA ACC 624
T L S S K M Y H T K G Q E G S V C L R S 192
ACC TTG TCT TCA AAA ATG TAT CAC ACC AAA GGA CAA GAA GGT TCT GTT TGT CTC CGG TCA 684
S D C A S G L C C A R H F W S K I C K P 212
TCA GAC TGT GCC TCA GGA TTG TGT TGT GCT AGA CAC TTC TGG TCC AAG ATC TGT AAA CCT 744
V L K E G Q V C T K H R R K G S H G L E 232
GTC CTG AAA GAA GGT CAA GTG TGT ACC AAG CAT AGG AGA AAA GGC TCT CAT GGA CTA GAA 804
I F Q R C Y C G E G L S C R I Q K D H H 252
ATA TTC CAG CGT TGT TAC TGT GGA GAA GGT CTG TCT TGC CCG ATA CAG AAA GAT CAC CAT 864
Q A S N S S R L H T C Q R H * 267
CAA GCC AGT AAT TCT TCT AGG CTT CAC ACT TGT CAG AGA CAC TAA 909
ACCAGCTATCCAAATGCAGTGAACCTTTTTATATAATAGATGCTATGAAAACCTTTTATGACCTTCATCAACTCAATC 988
CTAAGGATATACAAGTTCTGTGGTTTTTCAGTTAAGCATTCCAATAACACCTTCCAAAACCTGGAGTGTAAGAGCTTTGT 1067
TTCTTTATGGAACCTCCCTGTGATTGCAGTAAATTACTGTATTGTAAATTCTCAGTGTGGCACTTACCTGTAAATGCAA 1146
TGAAACTTTTAATTATTTTTCTAAAGGTGCTGCACTGCCTATTTTTCTCTTGTATGTAAATTTTTGTACACATTGAT 1225
TGTTATCTTGACTGACAAATATTCTATATTGAACTGAAGTAAATCATTTTTCAGCTTATAGTTCTTAAAAGCATAACCCTT 1304
TACCCCATTTAATTCTAGAGTCTAGAACGCAAGGATCTCTTGAATGACAAATGATAGGTACCTAAAATGTAACATGAA 1383
AAFACTAGCTTATTTTCTGAAATGTAATCTTAATGCTTAAATTATATTTCCCTTTAGGCTGTGATAGTTTTTGAAT 1462
AAAATTTAACATTTAATATCATGAAATGTTATAAGTAGACATAAAAAAAAAAAAAAAAAAAAAAAAAAGGGCGGCCG 1536

6650000000000000

Figure 4A

GTCGACCCACGCGTCCGGCGGGAGCCCCGCGGCGAGCGTAGCGCAAGTCCGCTCCCTAGGCATCGCTGCGCTGGCAGCGA 79
TTCGCTGTCTCTTGTGAGTCAGGGGACAACGCTTCGGGGCAACTGTGAGTGCGCGTGTGGGGGACCTCGATTCTCTTCA 158
GATCTCGAGGATTCCGGTCCGGGGACGTCTCCTGATCCCCCTACTAAAGCGCCTGCTAACTTTGAAAAGGAGCACTGTGTGTC 237
CTGCAAAGTTTGACACATAAAGGATAGGAAAAGAGAGGAGAGAAAAGCAACTGAGTTGAAGGAGAAGGAGCTGATGCGG 316
GCCTCCTGATCAATTAAGAGGAGAGTTAAACCGCCGAGATCCCGCGGGACCAAGGAGGTGCGGGGCAAGAAGGAACGG 395
AAGCGGTGCGATCCACAGGGCTGGGTTTTCTTGCACCTTGGGTACGCCTCCTTGGCGAGAAAGCGCCTCGCATTTGAT 474
TGCTTCCAGTTATTGCAGAACTTCCTGTCTGTTGGAGAAGCGGGTCTCGCTTGGGTTCCGCTAATTTCTGTCTGAGG 553
CGTGAGACTGAGTTCATAGGGTCTGGGTCCCCGAACCAGGAAGGGTTGAGGGAACACAATCTGCAAGCCCCCGCGACC 632
CAAGTGAGGGGCCCGTGTGGGGTCTCCTCCCTTTGCATTCCCACCCCTCCGGGCTTTGCGTCTTCTGGGGACCC 711

M A A L M R S K D S S C C L L L L 17
CCTCGCCGGGAG ATG GCC GCG TTG ATG CGG AGC AAG GAT TCG TCC TGC TGC CTG CTC CTA CTG 774

A A V L M V E S S Q I G S S R A K L N S 37
GCC GCG GTG CTG ATG GTG GAG AGC TCA CAG ATC GGC AGT TCG CGG GCC AAA CTC AAC TCC 834

I K S S L G G E T P G Q A A N R S A G M 57
ATC AAG TCC TCT CTG GGC GGG GAG ACG CCT GGT CAG GCC GCC AAT CGA TCT GCG GGC ATG 894

Y Q G L A F G G S K K G K N L G Q A Y P 77
TAC CAA GGA CTG GCA TTC GGC GGC AGT AAG AAG GGC AAA AAC CTG GGG CAG GCC TAC CCT 954

C S S D K E C E V G R Y C H S P H Q G S 97
TGT AGC AGT GAT AAG GAG TGT GAA GTT GGG AGG TAT TGC CAC AGT CCC CAC CAA GGA TCA 1014

S A C M V C R R K K K R C H R D G M C C 117
TCG GCC TGC ATG GTG TGT CGG AGA AAA AAG AAG CGC TGC CAC CGA GAT GGC ATG TGC TGC 1074

P S T R C N N G I C I P V T E S I L T P 137
CCC AGT ACC CGC TGC AAT AAT GGC ATC TGT ATC CCA GTT ACT GAA AGC ATC TTA ACC CCT 1134

H I P A L D G T R H R D R N H G H Y S N 157
CAC ATC CCG GCT CTG GAT GGT ACT CGG CAC AGA GAT CGA AAC CAC GGT CAT TAC TCA AAC 1194

H D L G W Q N L G R P H T K M S H I K G 177
CAT GAC TTG GGA TGG CAG AAT CTA GGA AGA CCA CAC ACT AAG ATG TCA CAT ATA AAA GGG 1254

H E G D P C L R S S D C I E G F C C A R 197
CAT GAA GGA GAC CCC TGC CTA CGA TCA TCA GAC TGC ATT GAA GGG TTT TGC TGT GCT CGT 1314

H F W T K I C K P V L H Q G E V C T K Q 217
CAT TTC TGG ACC AAA ATC TGC AAA CCA GTG CTC CAT CAG GGG GAA GTC TGT ACC AAA CAA 1374

R K K G S H G L E I F Q R C D C A K G L 237
CGC AAG AAG GGT TCT CAT GGG CTG GAA ATT TTC CAG CGT TGC GAC TGT GCG AAG GGC CTG 1434

S C K V W K D A T Y S S K A R L H V C Q 257
TCT TGC AAA GTA TGG AAA GAT GCC ACC TAC TCC TCC AAA GCC AGA CTC CAT GTG TGT CAG 1494

K I * 260
AAA ATT TGA 1503

TCACCATTGAGGAACATCATCAATTGCAGACTGTGAAGTTGTGTATTTAATGCATTATAGCATGGTGGAAAATAAGGTT 1582
CAGATGCAGAAGAATGGCTAAAATAAGAAACGTGATAAGAATATAGATGATCACAAAAGGGAGAAAGAAAACATGAAC 1661
TGAATAGATTAGAATGGGTGACAAATGCAGTGCAGCCAGTGTTCATTATGCAACTTGTCTATGTAATAATGTACAC 1740

653634 636366

Figure 4B

ATTTGTGGAAATGCTATTATTAAGAGAACAAGCACACAGTGGAAATTACTGATGAGTAGCATGTGACTTTCCAAGAGT 1819
TTAGGTTGTGCTGGAGGAGAGGTTTCCTTCAGATTGCTGATTGCTTATACAAATAACCTACATGCCAGATTTCTATTCA 1898
ACGTTAGAGTTTAAACAAAATACCTCTAGAATAACTTGTATACAATAGGTTCTAAAAATAAAATTGCTAAACAAGAAAT 1977
GAAAACATGGAGCATTGTTAATTTACAACAGAAAATTACCTTTTGATTTGTAACACTACTTCTGCTGTTCAATCAAGAG 2056
TCTTGGTAGATAAGAAAAAATCAGTCAATATTTCCAAATAATTGCAAAATAATGGCCAGTTGTTTAGGAAGGCCCTTTA 2135
GGAAGACAAATAAATAACAAACAAACAGCCACAAATACTTTTTTTTCAAATTTTAGTTTTACCTGTAATTAATAAGAA 2214
CTGATACAAGACAAAAACAGTTCCTTCAGATTCTACGGAATGACAGTATATCTCTCTTTATCCTATGTGATTCTCTGCTC 2293
TGAATGCATTATATTTTCCAAAGTATACCCATAAATTGTGACTAGTAAAATACTTACACAGAGCAGAATTTTCACAGAT 2372
GGCAAAAAATTTAAAGATGTCCAATATATGTGGGAAAAGACTAACAGAGAGATCATTATTTCTTAAAGATTGGCCAT 2451
AACCTGTATTTTGATAGAATTAGATTGGTAAATACATGTATTCATACATACTCTGTGGTAATAGAGACTTGAGCTGGAT 2530
CTGTACTGCACTGGAGTAAGCAAGAAAATTGGGAAAACCTTTTCGTTTGTTGAGTTTTGGCAACACATAGATCATATG 2609
TCTGAGGCACAAGTTGGCTGTTTCATCTTTGAAACCAGGGGATGCACAGTCTAAATGAATATCTGCATGGGATTTGCTAT 2688
CATAATNTTTCCTATGCNGNTGAATTCNGTGTGAGGTCCTGTGTCCTATCCTCAAATTATTTATTTATAGTGCT 2767
GAGATCCTCAAATAATCTCAATTTCCGAGGTTTCACAAAATGGACTCCTGAAGTAGACAGAGTAGTGAGGTTTCATTGC 2846
CCTCTATAAGCTTCTGACTAGCCAATGGCATCATCCAATTTCTTCCCAAACCTCTGCAGCATCTGCTTTATTGCCAAA 2925
GGGCTAGTTTCGGTTTTCTGCCAGCCATTGCGGTTAAAAAATAAAGTAGGATAACTTGTA AACCTGCATATTGCTAA 3004
TCTATAGACACCACAGTTTCTAAATCTTTGAAACCCTTTACTACTTTTTTTAACTTAACTCAGTTCTAAATACTTT 3083
GTCTGGAGCACAAAACAATAAAAGGTTATCTTATAGTTGTGACTTTAACTTTTGTAGACCACAATTCACTTTTTAGTT 3162
TTCTTTTACTTAAATCCCATCTGCAGTCTCAAATTTAAGTCTCCAGTAGAGATTGAGTTTGAGCCTGTATATCTATT 3241
AAAAATTTCAACTTCCACATATATTTACTAAGATGATTAAGACTTACATTTTCTGCACAGGTCTGCAAAAACAAAAT 3320
TATAAACTAGTCCATCCAAGAACCAAGTTTGTATAAACAGGTTGCTATAAGCTTGGTGAATGAAATGGAACATTTT 3399
AATCAAACATTTCTATATAACAATTATTATATTTACAATTTGGTTTCTGCAATATTTTTCTTATGTCCACCCTTTTAA 3478
AAATTATTTTGAAGTAATTTATTTACAGGAAATGTTAATGAGATGTATTTTCTTATAGAGATATTTCTTACAGAAAG 3557
CTTTGTAGCAGAATATATTTGCAGCTATTGACTTTGTAATTTAGGAAAAATGTATAATAAGATAAAATCTATTAAATTT 3636
TTCTCCTCTAAAAACTGAAAAAAAAAAAAAAAAAAAAAAAAAGGGCGGCCGC 3687

bioRxiv preprint doi: <https://doi.org/10.1101/2017.08.01.121111>; this version posted August 1, 2017. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 5A

FGTCGACCCACGCGTCCGCTGTGGCAGCCCAGCTACCGGTCGTGACCAGATCCAGCTTGACGCTCAGCTTTGTTCATTC 79

M Q R L G G I L L C T L 12
GAATTGGGGCGGCGCCAGCGCGGAACAAAC·ATG CAG CGG CTC GGG GGT ATT TTG CTG TGT ACA CTG 145

L A A A V P T A P A P S P T V T W T P A 32
CTG GCG GCG GCG GTC CCC ACT GCT CCT GCT CCT TCC CCG ACG GTC ACT TGG ACT CCG GCG 205

E P G P A L N Y P Q E E A T L N E M F R 52
GAG CCG GGC CCA GCT CTC AAC TAC CCT CAG GAG GAA GCT ACG CTC AAT GAG ATG TTT CGA 265

E V E E L M E D T Q H K L R S A V E E M 72
GAG GTG GAG GAG CTG ATG GAA GAC ACT CAG CAC AAA CTG CGC AGT GCC GTG GAG GAG ATG 325

E A E E A A A K T S S E V N L A S L P P 92
GAG GCG GAA GAA GCA GCT GCT AAA ACG TCC TCT GAG GTG AAC CTG GCA AGC TTA CCT CCC 385

N Y H N E T S T E T R V G N N T V H V H 112
AAC TAT CAC AAT GAG ACC AGC ACG GAG ACC AGG GTG GGA AAT AAC ACA GTC CAT GTG CAC 445

Q E V H K I T N N Q S G Q V V F S E T V 132
CAG GAA GTT CAC AAG ATA ACC AAC AAC CAG AGT GGA CAG GTG GTC TTT TCT GAG ACA GTC 505

I T S V G D E E G K R S H E C I I D E D 152
ATT ACA TCT GTA GGG GAT GAA GAA GGC AAG AGG AGC CAT GAA TGT ATC ATT GAT GAA GAC 565

C G P T R Y C Q F S S F K Y T C Q P C R 172
TGT GGG CCC ACC AGG TAC TGC CAG TTC TCC AGC TTC AAG TAC ACC TGC CAG CCA TGC CGG 625

D Q Q M L C T R D S E C C G D Q L C A W 192
GAC CAG CAG ATG CTA TGC ACC CGA GAC AGT GAG TGC TGT GGA GAC CAG CTG TGT GCC TGG 685

G H C T Q K A T K G G N G T I C D N Q R 212
GGT CAC TGC ACC CAA AAG GCC ACC AAA GGT GGC AAT GGG ACC ATC TGT GAC AAC CAG AGG 745

D C Q P G L C C A F Q R G L L F P V C T 232
GAT TGC CAG CCT GGC CTG TGT TGT GCC TTC CAA AGA GGC CTG CTG TTC CCC GTG TGC ACA 805

P L P V E G E L C H D P T S Q L L D L I 252
CCC CTG CCC GTG GAG GGA GAG CTC TGC CAT GAC CCC ACC AGC CAG CTG CTG GAT CTC ATC 865

T W E L E P E G A L D R C P C A S G L L 272
ACC TGG GAA CTG GAG CCT GAA GGA GCT TTG GAC CGA TGC CCC TGC GCC AGT GGC CTC CTA 925

C Q P H S H S L V Y M C K P A F V G S H 292
TGC CAG CCA CAC AGC CAC AGT CTG GTG TAC ATG TGC AAG CCA GCC TTC GTG GGC AGC CAT 985

D H S E E S Q L P R E A P D E Y E D V G 312
GAC CAC AGT GAG GAG AGC CAG CTG CCC AGG GAG GCC CCG GAT GAG TAC GAA GAT GTT GGC 1045

F I G E V R Q E L E D L E R S L A Q E M 332
TTC ATA GGG GAA GTG CGC CAG GAG CTG GAA GAC CTG GAG CGG AGC CTA GCC CAG GAG ATG 1105

66360" 2306360

Figure 5B

A F E G P A P V E S L G G E E E I * 350
GCA TTT GAG GGG CCT GCC CCT GTG GAG TCA CTA GGC GGA GAG GAG GAG ATT TAG 1159

GCCCAGACCCAGCTGAGTCACTGGTAGATGTGCAATAGAAATGGCTAATTTATTTTCCCAGGAGTGTCCCCAAGTGTGG 1238

AATGGCCGCAGCTCCTTCCCAGTAGCTTTTCTCTGGCTTGACAAGGTACAGTGCAGTACATTTCTTCCAGCCGCCCTG 1317

CTTCTCTGACTTGGGAAAGACAGGCATGGCGGGTAAGGGCAGCGGTGAGTCGTCCCTCGCTGTTGCTAGAAACGCTGTC 1396

TGTTTCTTCATGGATGGAAGATTTGTTTGAAGGGAGAGGATGGGAAGGGGTGAAGTCTGCTCATGATGGATTTGGGGGA 1475

TACAGGGAGGAGGATGCCTGCCTTGCAGACGTGGACTTGGCAAAATGTAACCTTTGCTTTTGTCTTGCGCCGCTCCCAT 1554

GGGCTGAGGCAGTGGCTACACAAGAGCTATGCTGCTCTGTGGCCTCCACATATTTCATCCCTGTGTTTCAGCTCCTACC 1633

TCACTGTGAGCACAGCCCTTCATAGCCACGCCCCCTCTTGCTCACCACAGCCTAGGAGGGGACCAGAGGGGACTTCTCT 1712

CAGAGCCCCATGCTCTCTCTCAACCCCATACCAGCCTCTGTGCCAGCGACAGTCCCTTCAAATGGAGGGAGTGAAAT 1791

CCTTTGGTTTAATTATTTTCTCCTTCAAGGCACGCCTGCCACTAAGGTGAGGCTGACTTGCATGTCCCTCTAACGTTCCG 1870

TAGCAGTGTGGTGGACACTGTCTTCCACCGACTGCTTCAATACCTCTGAAAGCCAGTGTCTGGAGTGCAGTTCGTGTAA 1949

ATTAATTTGCAGGAAGTATACTTGGCTAATTGTAGGGCTAGGATTGTGAATGAAATTTGCAAAGTCGCTTAGCAACAAT 2028

GAAAGCCTTTCTCAGTCACACCGAGAAGTCACAACCAAGCCAGGTTGTGTAGAGTACAGCTGTGACATACAGACAGAA 2107

GAAGGCTGGGCTGGATGTCAGGCCTCAGATGACGGTTTCAGGTGCCAGGAACCTATTACCATTCTGTATCTATCCAGAGT 2186

TATTAAAATTGAAAGTTGCACACATTTGTATAAGCATGCCTTTCTCCTGAGTTTTAAATTATATGTATAACAAACATG 2265

TGGCCCTCAAAGATCATGCACAAACCACTACTCTTTGCTAATTCTTGGACTTTTCTCTTTGATTTTCAATAAATACAAA 2344

TCCCCTTCATGCAAAAAAAAAAAAAAAAAAGGGCGGCCGC 2381

bioRxiv preprint doi: <https://doi.org/10.1101/201603>; this version posted March 1, 2016. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 6

```

1
hdkk-1 -----MMAL
mdkk-1 -----MMVV
xdkk-1 -----
hdkk-2 -----
hdkk-3 MORLGATLLC LLLAAAVPTA PAPAP.....TATSAPV KPGPALSYPQ EEATLNEMFR
mdkk-3 MORLGGILLC TLLAAAVPTA PAPSP.....TVTWTPTA EPGPALNYPQ EEATLNEMFR
cdkk-3 -----MRRG RGPAPRRRWL LLLAVLAALC CAAAGSGRR RAASLGEMLR
hdkk-4 -----

61
hdkk-1 GAAGATRVFV AMVAAALGGH PLL...G.V SATLNSVL.. NSNAIKNLP. PPLGGAAGHP
mdkk-1 CAPAAVRFLA VFTMALCSL PLL...G.A SATLNSVLI. NSNAIKNLP. PPLGGAGQGP
xdkk-1 -----MGSNMEPV PLIVFWGFIL DGALGFVMMT NSNSIKNVA APAGQPIGY.
hdkk-2 -----MA ALMRKSDSSC CLLLLAAVLM...VESSOIG SSRAKLNSIK SSLGGET..P
hdkk-3 EVEELMEDTQ HKLRSAVEEM E.AEEAAAKA SSEVNLANLP PSYHNETNTD TKVGNNTIHV
mdkk-3 EVEELMEDTQ HKLRSAVEEM E.AEEAAAKT SSEVNLASLP PNYHNETSTE TRVGNNTVHV
cdkk-3 EVEALMEDTQ HKLRNAVQEM E.AEEEGAKK LSEVNFENLP PTYHNESNTE TRIGNKTVQT
hdkk-4 -----MVAAVLGL

121
hdkk-1 GSAV...SA APGILYPG.. .GNKYQTIDN YQYPFCAEDE ECGTDEYCAS PTRG..GDAG
mdkk-1 GSAV...SV APGVLYEG.. .GNKYQTLDN YQYPFCAEDE ECGSDEYCSS PSRGAAGVGG
xdkk-1 .YPV...SV SPDSLYDI.. .ANKYQPLDA YPLYSCTEDD DCALDEFCHS SRNGNS...
hdkk-2 GQAA...NR SAG.MYQGLA FGGSKKGNL GOAYFCSSDK ECEVGRYCHS PHQSSA...
hdkk-3 HREIHKITNN QTGMVFSET VITSVGDEEG RRSHECIIDE DCGPSMYC...QFASF
mdkk-3 HQEVHKITNN QSQQVVFSET VITSVGDEEG KRSHECIIDE DCGPTRYC...QFSSF
cdkk-3 HQEIDKVTDN RTGSTIFSET IITSIKGGEN KRNHECIIDE DCETGKYC...QFSTF
hdkk-4 SWLC...SP LGALVLDVFN IRSSADLHGA RKSQCCLSDT DCNTRKFCLO PRDEKP...

181
hdkk-1 VQICLACRKR RKRRCMRHAMC CPGNYCKNGI QVS..SDQNH F..RGEIET ITESFGN.DH
mdkk-1 VQICLACRKR RKRRCMTHAMC CPGNYCKNGI CMP..SDSH FP.RGEIEES ILENLGN.DH
xdkk-1 .LVCLACRKR RKRCLRDMAC CTGNYCSNGI CVPVEQDQER FQHQQYLEET ILENYNNADH
hdkk-2 .CMVCRKR KKRCHRDGMC CPSTRCNGI CIPV.TESIL TPHPALDGT RHRD.RNHGH
hdkk-3 QYTCQPCRQ RMLCTRDESEC CGDQLCVWGH CTKMAT.....
mdkk-3 KYTCQPCRQ QMLCTRDESEC CGDQLCAWGH CTQKAT.....
cdkk-3 EYKCQPKTQ HTHCSRDEVEC CGDQLCVWGE CRKATS.....
hdkk-4 .FCATCRGL RRRQRDAMC CPGTLCVNDV CTTME.DATP ILERQLDEQD GTHAEGTTGH

241
hdkk-1 STL..DGYSR RTLLSSKMYH TKQEGSVGL RSSDCASGLC CA..RHFWSK ICKEVLKEGO
mdkk-1 NAAAGDGYPR RTTLTSKIYH TKQEGSVCL RSSDCAAGLC CA..RHFWSK ICKEVLKEGO
xdkk-1 ATM..DTHSK LTTSPSGMQP FKGRDGDVCL RSTDCAPLG CA..RHFWSK ICKEVLDEGO
hdkk-2 YSNHDLGWQN LGRPHTKMSH IKGHEGDPCL RSSDCIEGFC CA..RHFWSK ICKEVLHGOE
hdkk-3 .....RSGNGTICD NORDCQPLG CAFORGLLFP VCTPLPVEGE
mdkk-3 .....KGGNGTICD NORDCQPLG CAFORGLLFP VCTPLPVEGE
cdkk-3 .....RGNGTICE NQHDNPGTC CAFQKELLEFP VCTPLPEEGE
hdkk-4 PV..QENQPK RKPSIKKSQG RKQEGESCL RTFDCEGGLC CA..RHFWSK ICKEVLLEGO

301
hdkk-1 VC TKHRR KG SHGLE IFORCYCGE GESCRIQ D HHOASNSSRL HTCORH
mdkk-1 VC TKHRR KG SHGLE IFORCYCGE GLACRIQ D HHOASNSSRL HTCORH
xdkk-1 VC TKHRR KG SHGLE IFORCHCGA GLSCLQGE FTIVPKTSRL HTCORH
hdkk-2 VC TKORR KG SHGLE IFORCDCAK GLSCKVWKD ATYSSKARL HVCKLT
hdkk-3 LCHDPASRLD DLITWELEPD GALDRCPCAS GLLCOPH SH SLVYVCKPTE VGSRDODGE
mdkk-3 LCHDPSQLL DLITWELEPE GALDRCPCAS GLLCOPH SH SLVYVCKPTE VGSRDODGE
cdkk-3 PCHDPSNRLD NLITWELEPD GVLERCPCAS GLICQPSH STTSVQLSS NETRKNKED
hdkk-4 VC .SRRGH KDTAQAPE IFORCDGGP GLLCRSOLTS NROH ARL RVCKTEKL

361
hdkk-1 -----
mdkk-1 -----
xdkk-1 -----
hdkk-2 -----
hdkk-3 ..... ILLPREVPDE YEVGSFMEEV ROELEDLERS LTEEMALGEP AAAAAALLGGEEI-
mdkk-3 ..... SQLPREAPDE YEDVGFIGEY ROELEDLERS LAQEMAFEGP APVES..LGEEEEI
cdkk-3 PLNMDEMPFI SLIPRDILSD YEESVIVQEV RKELESLE..DQAGVKSEH DPAHDLFLGDEI-
hdkk-4 -----

```

66500 200300

Figure 7

CTCGAGGCCAAAATTCGGCACGAGGCCGGGCTGTGGTCTAGCATAAAGGCCGAGCCCAGAAGAAGGGGCGGGGT	M	1
ATG		77
G E A S P P A P A R R H L L V L L L L L		21
GGA GAA GCC TCC CCA CCT GCC CCC GCA AGG CGG CAT CTG CTG GTC CTG CTG CTG CTC CTC		137
S T L V I P S A A A P I H D A D A Q E S		41
TCT ACC CTG GTG ATC CCC TCC GCT GCA GCT CCT ATC CAT GAT GCT GAC GCC CAA GAG AGC		197
S L G L T G L Q S L L Q G F S R L F L K		61
TCC TTG GGT CTC ACA GGC CTC CAG AGC CTA CTC CAA GGC TTC AGC CGA CTT TTC CTG AAA		257
G N L L R G I D S L F S A P M D F R G L		81
GGT AAC CTG CTT CGG GGC ATA GAC AGC TTA TTC TCT GCC CCC ATG GAC TTC CGG GGC CTC		317
P G N Y H K E E N Q E H Q L G N N T L S		101
CCT GGG AAC TAC CAC AAA GAG GAG AAC CAG GAG CAC CAG CTG GGG AAC AAC ACC CTC TCC		377
S H L Q I D K M T D N K T G E V L I S E		121
AGC CAC CTC CAG ATC GAC AAG ATG ACC GAC AAC AAG ACA GGA GAG GTG CTG ATC TCC GAG		437
N V V A S I Q P A E G S F E G D L K V P		141
AAT GTG GTG GCA TCC ATT CAA CCA GCG GAG GGG AGC TTC GAG GGT GAT TTG AAG GTA CCC		497
R M E E K E A L V P I Q K A T D S F H T		161
AGG ATG GAG GAG AAG GAG GCC CTG GTA CCC ATC CAG AAG GCC ACG GAC AGC TTC CAC ACA		557
E L H P R V A F W I I K L P R R R S H Q		181
GAA CTC CAT CCC CGG GTG GCC TTC TGG ATC ATT AAG CTG CCA CGG CGG AGG TCC CAC CAG		617
D A L E G G H W L S E K R H R L Q A I R		201
GAT GCC CTG GAG GGC GGC CAC TGG CTC AGC GAG AAG CGA CAC CGC CTG CAG GCC ATC CGG		677
D G L R K G T H K D V L E E G T E S S S		221
GAT GGA CTC CGC AAG GGG ACC CAC AAG GAC GTC CTA GAA GAG GGG ACC GAG AGC TCC TCC		737
H S R L S P R K T H L L Y I L R P S R Q		241
CAC TCC AGG CTG TCC CCC CGA AAG ACC CAC TTA CTG TAC ATC CTC AGG CCC TCT CGG CAG		797
L *		243
CTG TAG		803
GGGTGGGGACCGGGGAGCACCTGCCTGTAGCCCCATCAGACCCTGCCCAAGCACCATATGGAATAAAGTTCTTTCT		882
TACATCTAAAAAAAAAAAAAAAAAAAAAAAAAATTGGCGGCCGC		928

BioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted August 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted BioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

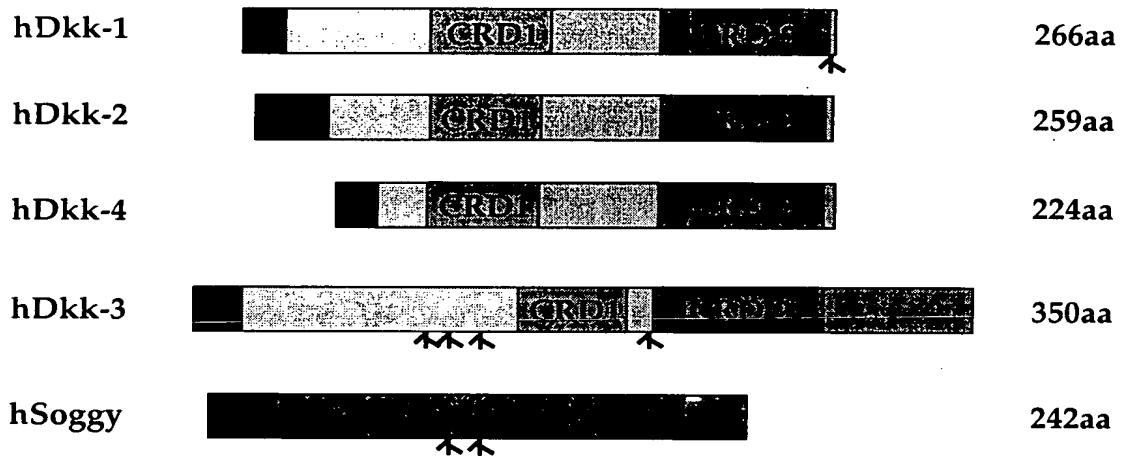
Figure 8

GAATTCGGCACGAGGCAGAAGGCGCGAATGAAGGCAAAGCCTCCACCCACCTGCA	M C R L R	5
	ATG TGT CGA CTG AGG	71
V L L L L L P L A F V S S S A L P I H D		25
GTC TTG CTG CTG CTG CTC CCC TTG GCC TTC GTG TCC TCC TCT GCT CTC CCC ATC CAT GAT		131
V D S Q Q N T S G F L G L Q R L L Q S F		45
GTC GAC TCT CAG CAG AAC ACC TCC GGG TTC CTG GGC CTT CAG AGG CTT CTC CAA AGC TTT		161
S R L F L K N D L L R D L D N F F S S P		65
AGT CGA CTG TTC CTA AAA AAT GAC CTG CTA CGA GAC CTG GAC AAC TTC TTC TCC TCC CCC		251
M D F R D L P R N F H Q E E N Q E H R M		85
ATG GAC TTC CGA GAC CTT CCT AGG AAC TTC CAT CAG GAA GAG AAC CAG GAG CAC AGA ATG		311
G N H T L S S H L Q I D K V T D N Q T G		105
GGC AAC CAT ACC CTC TCC AGC CAC CTA CAG ATA GAC AAG GTG ACT GAC AAC CAG ACA GGG		371
E V H I S E K V E A S I E P E R N P E G		125
GAG GTG CAC ATC TCG GAG AAA GTC GAG GCC TCC ATT GAG CCA GAA CGG AAC CCG GAA GGG		431
D W K V P K V E A K E P P V P V Q K V T		145
GAC TGG AAG GTT CCC AAA GTA GAA GCA AAA GAG CCC CCG GTG CCT GTG CAG AAG GTC ACC		491
D S L H P E P R Q V A F W I M K M P R R		165
GAC AGC TTG CAC CCA GAG CCC CGG CAG GTG GCT TTC TGG ATC ATG AAG ATG CCA AGG CGG		551
R T Q P D V Q D G G R W L I E K R H R M		185
AGG ACC CAG CCC GAT GTC CAG GAT GGA GGC CGC TGG CTC ATA GAA AAG CGA CAT CGC ATG		611
Q A I R D G L R G G A R E D S L E D G V		205
CAG GCC ATC CGG GAT GGG CTC CGT GGA GGC GCC CGT GAG GAC AGC CTG GAG GAT GGG GTC		671
H I P Q H A K L P V R K T H F L Y I L R		225
CAT ATC CCC CAA CAC GCC AAG CTG CCT GTC AGA AAG ACA CAC TTT CTC TAC ATC CTC AGG		731
P S Q Q L *		231
CCA TCC CAA CAG CTG TAA GTGGGGACCAGATGTCCACACCCTACCCCAACACCATATGGAATAAAGGTTTTC		805
TTACATCTAAAAAAAAAAAAAAAAAAAAAAAAA		835

5530000000000000

Figure 9

A



bioRxiv preprint doi: <https://doi.org/10.1101/2023.03.29.533360>; this version posted March 29, 2023. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 10

	1		60
hsoggy	<u>MGEASPPAPA RRHL LVLLL LLSTLVIPSA AAPIHDADAQ</u>	ESSLG.....	LTGLQSL
msoggy	-----	MCRL RVLLL LLPLAFVSSS ALPIHDVDSQ	QNTSG.....
hdck-3	-----	MORLGATLLC LLLAAAVPTA PAPAPTATSA	PVKPGPALS
mdck-3	-----	<u>MORLGGILLC TLLAAAVPTA PAPSPTVTWT</u>	PQEEATLNEM
		* * *	
	61		120
hsoggy	LQFGRRLF..	LKGNLLRGID SL.....	FSAPMDFRGL
msoggy	LQFSRRLF..	LKNDLLRDLD NF.....	FSSPMDFRDL
hdck-3	FREVEELMED	TQHKLRSAVE	EMEAEAAAK
mdck-3	FREVEELMED	TQHKLRSAVE	EMEAEAAAK
	*	*	*
		* * *	* * *
	121		180
hsoggy	SHLQIDKMTD	NKTGEVLISE	NVVASIQPAE
msoggy	SHLQIDKMTD	NOTGEVHISE	KVEASIEP.E
hdck-3	VHREIHKITN	NOTGQMFSE	TVITSVGDEE
mdck-3	VHREIHKITN	NOTGQMFSE	TVITSVGDEE
	*	*	*
	*	*	*
	*	*	*
		* * *	* * *
	181		240
hsoggy	ELHPR.VAFW	I I K L P R R R S H Q D A L E G
msoggy	E . . P R Q V A F W	I M K M P R R R T Q P D V Q D G
hdck-3	S M Y C Q F A S F Q	Y T C Q P C R G Q R	M L C T R D S E C C
mdck-3	T R Y C Q F S S F K	Y T C Q P C R D Q Q	M L C T R D S E C C
	*	*	*
	*	*	*
	*	*	*
		* * *	* * *
	241		300
hsoggy	[REDACTED]		
msoggy	[REDACTED]		
hdck-3	[REDACTED]		
mdck-3	[REDACTED]		
	*	*	*
	*	*	*
	*	*	*
		* * *	* * *
	301		360
hdck-3	[REDACTED]	VCKPTFVGSR	DQDGEILLPR
mdck-3	[REDACTED]	MCKPAFVGSH	DHSEESQLPR
		*	*
		*	*
		*	*
		* * *	* * *
	361		379
hdck-3	ALGEPAAAAA	ALLGGEEI~	
mdck-3	AFEGPAPVES	..LGEEEEI	

165466 306356

Figure 11

1
 hdkk-1 TKQEGSVCL RSSDCASGLC CA..RHFWK ICKPVLKEGQ VCTKRRK... ..GSHGL EIFORCYCGE GLSRIQKDH HOASNSSRLH TCORH-----
 hdkk-2 IKGHEGDPCL RSSDCIEGFC CA..RHFWK ICKPVLHOGE VCTKORR... ..GSHGL EIFORCDCAK GLSCKVWKD. ATYSSKAPLH VCQKI-----
 hdkk-3 TRGNGTTIC NQRDCQPGLC CAFQRLFP VCTPLVEGE LCHDPASRLD DLITWELEPD GÄLDRCPCAS GLLC..... .OPHSLSLVY VCKPTFVSSR
 hdkk-4 RKGOGESCL RTFDCGPGLC CA..RHFWK ICKPVLLEGO VCSRRGHK... ..DTAQAP EIFORCDCCP GLLCRSQLTS NR..OHAPR VCQKIEKL--
 coliipase INLENGELCM NSAQCKSN.C COHSSALGLA RCTSMASENS ECSVKTL... ..Y GIYVKPCPER GLTCEGDKTI VGSITNTNFG ICHDAGRSKQ

100

Figure 12

